

Rabbit anti-Human CD163 Polyclonal Antibody | anti-CD163 antibody

CD163 Antibody (N-term)

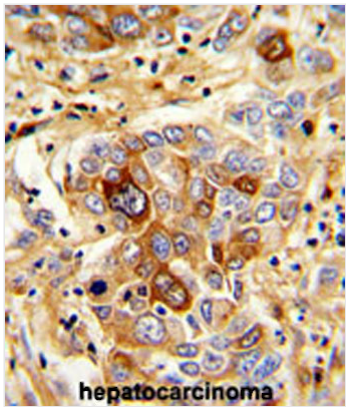
CATALOG # AAA287307	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

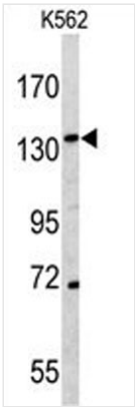
CD163; Polyclonal Antibody; CD163 Antibody (N-term); Scavenger receptor cysteine-rich type 1 protein M130; Hemoglobin scavenger receptor; Soluble CD163; sCD163; M130; anti-CD163 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CD163 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 245-274 amino acids from the N-terminal region of human CD163.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	245-274
Sequence Length	1,154
Applicable Applications for anti-CD163 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Function	Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibits the higher capacity for ligand endocytosis and the more pronounced surface expression when expressed in cells.
Cellular location	Soluble CD163: Secreted
Tissue Location	Expressed in monocytes and mature macrophages such as Kupffer cells in the liver, red pulp macrophages in the spleen, cortical macrophages in the thymus, resident bone marrow macrophages and meningeal macrophages of the central nervous system. Expressed also in blood. Isoform 1 is the lowest abundant in the blood. Isoform 2 is the lowest abundant in the liver and the spleen. Isoform 3 is the predominant isoform detected in the blood.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma with CD163 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of CD163 antibody (N-term) in K562 cell line lysates (35ug/lane). CD163 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-CD163 antibody	CD163 is an acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. The protein may play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. It binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. And it exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. It also induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1.
Product Categories/Family for anti-CD163 antibody	Cardiovascular; Immunology
References	Buehler,P.W., Abraham,B. Blood 113 (11), 2578-2586 (2009) Fabriek,B.O., van Bruggen,R. Blood 113 (4), 887-892 (2009) Strauss,M. and Levy,A.P. Mol. Cell. Biochem. 317 (1-2), 131-135 (2008) Groselj-Grenc,M., Ihan,A. Mediators Inflamm. 2008, 202646 (2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	344179110
NCBI GeneID	9332
NCBI Accession #	NP_004235.4; NP_981961.2
NCBI GenBank Nucleotide #	NM_004244.5
UniProt Accession #	Q86VB7; Q07898; Q07899; Q07900; Q07901; Q2VLH7; C9JIG2
NCBI Official Full Name	scavenger receptor cysteine-rich type 1 protein M130 isoform a
NCBI Official Synonym Full Names	CD163 molecule
NCBI Official Symbol	CD163
NCBI Official Synonym Symbols	M130; MM130
NCBI Protein Information	scavenger receptor cysteine-rich type 1 protein M130
UniProt Protein Name	Scavenger receptor cysteine-rich type 1 protein M130
UniProt Gene Name	CD163

UniProt Synonym Gene Names	M130; sCD163
UniProt Entry Name	C163A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cd163-antibody-immunohistochemistry-western-blot-elisa/287307>